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APPLICATIO	N NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/605,0	45	09/03/2003	Shao-Tsu Kung	CEIP0053USA	2044	
27765	7590	12/14/2005		EXAM	INER	
	NORTH AMERICA INTELLECTUAL PROPERTY CORPORATION				PERVAN, MICHAEL	
_	OX 506					
MERR	IFIELD, \	/A 22116		ART UNIT	PAPER NUMBER	
				2677		
				DATE MAILED: 12/14/2005		

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)			
		10/605,045	KUNG ET AL.			
	Office Action Summary	Examiner	Art Unit			
		Michael Pervan	2677			
Period fo	The MAILING DATE of this communication app	ears on the cover sheet with the c	orrespondence address			
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.  - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.  - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).						
Status		,				
2a)☐ 3)☐	Responsive to communication(s) filed on <u>03 Some</u> This action is <b>FINAL</b> . 2b) This Since this application is in condition for alloward closed in accordance with the practice under Expensive to communication(s) filed on <u>03 Some</u> This action is <b>FINAL</b> . 2b) This series application is in condition for alloward closed in accordance with the practice under Expensive to communication(s) filed on <u>03 Some</u> This action is <b>FINAL</b> . 2b) This series application is in condition for alloward closed in accordance with the practice under Expensive to communication(s) filed on <u>03 Some</u> This action is <b>FINAL</b> . 2b) This series application is in condition for alloward closed in accordance with the practice under Expensive to the practice und	action is non-final.  nce except for formal matters, pro				
Dispositi	on of Claims		•			
5) □ 6) ☑ 7) □ 8) □	Claim(s) 1-11 is/are pending in the application 4a) Of the above claim(s) is/are withdraw Claim(s) is/are allowed.  Claim(s) 1-11 is/are rejected.  Claim(s) is/are objected to.  Claim(s) are subject to restriction and/or and/or and/or page 5.	wn from consideration.				
	on Papers					
<ul> <li>9)  The specification is objected to by the Examiner.</li> <li>10)  The drawing(s) filed on <u>03 September 2003</u> is/are: a)  accepted or b) objected to by the Examiner.  Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).</li> <li>11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.</li> </ul>						
Priority u	ınder 35 U.S.C. § 119					
<ul> <li>12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).</li> <li>a) All b) Some * c) None of:</li> <li>1. Certified copies of the priority documents have been received.</li> <li>2. Certified copies of the priority documents have been received in Application No</li> <li>3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).</li> <li>* See the attached detailed Office action for a list of the certified copies not received.</li> </ul>						
Attachmen	t(s)	·				
/1) ⊠ Notic 2) □ Notic /3) ⊠ Infor	e of References Cited (PTO-892) se of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO-1449 or PTO/SB/08) er No(s)/Mail Date <u>9/3/2003</u> .	4) Interview Summary Paper No(s)/Mail D 5) Notice of Informal F 6) Other:				

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## **DETAILED ACTION**

## Claim Rejections - 35 USC § 103

- 1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 2. Claims 1 and 5 are rejected under 35 U.S.C. 103(a) as being unpatentable over Suzuki (US 6,574,095) in view of Kim (US 2003/0025689).

In regards to claim 1, Suzuki discloses a method for cooperatively controlling a touchpad and a keyboard of a computing device, the method comprising: detecting for an event of at least a key of the keyboard, key events including a make even executed when the key is depressed and a break event executed when the key is released (col. 2, lines 21-27), deactivating the touchpad upon detection of the make event (col. 2, lines 21-27) and reactivating the touchpad immediately after a deactivation interval has elapsed (col. 2, lines 28-37); wherein the touchpad is normally activated. Suzuki does not disclose deactivating the touchpad upon detection of the break event when the touchpad is not receiving input.

Kim discloses deactivating the touchpad upon detection of the break event when the touchpad is not receiving input (paragraph 50; as long as a key is not pressed after a break event, then the break event is still being detected and if no input is given to the touchpad or a key then the device goes into hibernation and deactivates the touchpad along with most other components). It would have been obvious at the time of invention

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to modify Suzuki with the teachings of Kim because it would conserve power, which is especially vital in mobile devices.

In regards to claim 5, Suzuki discloses setting the length of the deactivation interval according to the make or break event being detected (col. 2, lines 21-37).

3. Claims 2-4 are rejected under 35 U.S.C. 103(a) as being unpatentable over Suzuki in view of Kim in further view of Zirul et al (US 2002/0098874).

In regards to claim 2, Suzuki as modified does not disclose detecting for a repeat event that is executed while a key is depressed for longer than a repeat threshold time and reactivating the touchpad upon detection of the repeat event.

Zirul discloses detecting for a repeat event that is executed while a key is depressed for longer than a repeat threshold time and reactivating the touchpad upon detection of the repeat event (paragraph 40; once the phone is on the touchpad becomes reactivated). It would have been obvious at the time of invention to modify Suzuki as modified with the teachings of Zirul because it gives the user the ability to activate the touchpad prior to the end of the deactivation interval.

In regards to claim 3, Suzuki as modified discloses activating a timer upon detection of the make or break event (col. 2, lines 21-37). Suzuki as modified does not disclose deactivating the timer upon detection of the repeat event.

Zirul discloses deactivating the timer upon detection of the repeat event (paragraph 40; once turned off the timer is turned off as well and once turned back on the timer would still be disabled since no make or break event has been detected). It would have been obvious at the time of invention to modify Suzuki as modified with the

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teachings of Zirul since the timer activates the touchpad upon completion and the since the touchpad has already been activated there is no need to have the timer continue.

In regards to claim 4, Suzuki as modified does not disclose the deactivation interval is equal to the repeat threshold time.

Since the specification does not provide a reason as to the benefit of having the deactivation interval be equal to the repeat threshold time, the examiner views this as an obvious designers choice.

4. Claims 6-11 are rejected under 35 U.S.C. 103(a) as being unpatentable over Liebenow et al (US 2003/0107557) in view of Suzuki.

In regards to claim 6, Liebenow discloses a housing 10 (see Figure 1), a processor 21 (see Figure 2a), memory fixed in the housing (paragraph 18), a keyboard connected to the processor 19 (see Figure 2a), a touchpad connected to the processor 18 (see Figure 2a) and a program stored in the memory and executable by the processor for performing the following controls (paragraphs 23-24; drivers are a type of program that allows a device to communicate with a computer): deactivating the touchpad. Liebenow does not disclose a timer, deactivating the touchpad for a deactivation interval as measured by a timer, the deactivation interval beginning when a key of the keyboard is depressed or when a key is released while the touchpad is not receiving input and activating the touchpad when the key depressed is held depressed for longer than a repeat threshold time and when the deactivation interval expires.

Suzuki discloses a timer (col. 2, line 18), deactivating the touchpad for a deactivation interval as measured by a timer (col. 2, lines 28-37), the deactivation

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interval beginning when a key of the keyboard is depressed or when a key is released while the touchpad is not receiving input (col. 2, lines 28-37) and activating the touchpad when the key depressed is held depressed for longer than a repeat threshold time and when the deactivation interval expires (col. 2, lines 28-37). It would have been obvious at the time of invention to modify Liebenow with the teachings of Suzuki because the use of a timer gives the user the ability to change the deactivation interval and the repeat interval to suit their needs.

In regards to claim 7, Liebenow discloses memory as a random-access memory (paragraph 18).

In regards to claim 8, Liebenow discloses memory as a red-only memory (paragraph 18).

In regards to claim 9, Liebenow discloses a display device connected to the processor for outputting information relating to input received by the keyboard and touchpad (paragraph 19).

In regards to claim 10, Liebenow discloses the touchpad being fixed in the housing and electrically connected to the processor (see Figures 1:16 and 2a:18).

In regards to claim 11, Liebenow discloses the touchpad being installed in a second housing and electrically connected or wirelessly connected to the processor (paragraph 20).

## Conclusion

5. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. The prior art (Chen US 5,886,686) is deemed relevant since it

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discusses a touchpad being in a second housing and electrically connected to the processor. The prior art (Ogura et al US 6,037,929) is deemed relevant since it discusses detecting a key and a timer. The prior art (Nagao US 6,532,003) is deemed relevant since it discusses detecting a key. The prior art (Anderson US 2001/0005199) is deemed relevant since it discusses detecting a key and housing. The prior art (Rudd US 2002/0180704) is deemed relevant since it discusses detecting a key, deactivating a touchpad after detection of a key and a timer.

6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Michael Pervan whose telephone number is (571) 272-0910. The examiner can normally be reached on Monday - Friday between 8am - 5pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Amr Awad can be reached on (571) 272-7764. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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Nov. 29, 2005

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PRIMARY EXAMINER